

## ANNUAL REPORT OF OPERATIONS FOR YEAR 2018

### Washington Hatchery Permit

<b>I. Facility Name:</b> U.S. Fish and Wildlife Service Spring Creek National Fish Hatchery (NFH)	<b>NPDES #</b> WAG-13000-6
<b>Operator Name (Permittee):</b> USDO/USFWS/Spring Creek NFH	<b>Phone:</b> (509) 493-1730
<b>Address:</b> 61552 State Road 14 Underwood, WA 98651	<b>Fax:</b> (509) 493-2980
	<b>E-Mail:</b> david_carie@fws.gov
<b>Owner Name (if different from operator):</b> Same	<b>Phone:</b> (509) 493-1730

**II. Annual Production:** Harvestable weight produced in the year 88,622 pounds

**III. Food Used:** Number of pounds of food fed to the fish  
During the maximum month: 23,056 pounds

#### IV. Noncompliance Summary:

*Include description & dates of noncompliance (including spills), the reason for such an incident, and the steps taken to correct the problem. Attach additional pages, if necessary.*

At no point this year were we in a state of non-compliance.

#### V. Best Management Practices (BMP) Plan

BMP Plan has been reviewed this year?	Yes <b>X</b>	No
BMP Plan fulfills the requirements set forth in the permit:	Yes <b>X</b>	No

*Summarize changes in the BMP Plan since last annual report. Attach additional pages, if necessary.*

Our BMP was reviewed and signature page updated 6/18/2018. There were no changes made to the water handling protocols.

#### VI. Solid Waste Disposal

Type of Solid Waste	Method of Disposal	When	Where
Adult carcasses (post-spawn)	Contractor for compost use – Forked Tree Ranch – Bonners Ferry, ID	09/18- 10/5 2018	Bonners Ferry, ID
Discarded eggs/fry	Digestion tank	09/22- 12/31 2018	Onsite NW corner of facility



## VII. Fish Mortalities

*Include description & dates of mass mortalities (more than 5%/week), the reason for each incident, and the steps taken to correct the problem. Attach additional pages, if necessary. Include total mortalities from all causes.*

Date	Cause of Deaths	Pounds of Fish
N/A	N/A	N/A

## VIII. Chemical Usage (including drugs and pesticides)

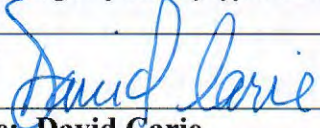
Date	Chemicals used, number of days used, maximum concentration in effluent	Yearly Total
10/15/2018	Chlorine, 24 hours, neutralized with sodium thiosulfate, 15ug/L was max. in effluent	605 gallons
09/17-11/01/2018	Iodine, used for treating eggs in incubation building at a concentration less than 20ppm, effluent water goes to settling ponds	336 gallons
9/18-9/28/2018	Tricaine Methanesulfonate (MS-222). Used as an anesthetic for handling adult salmon in the spawning process.	4,000 grams

## IX. Inspections and Repairs for Production and Water Treatment Systems

Date Inspected	Date Repaired	Description of system inspected and/or repaired
		Our production and wastewater treatment systems are inspected continuously by fish culture, maintenance and management staff when systems are in operation. All systems were found to be in good condition and repairs were not necessary this year.

## X. Signature & Certification

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

Signature: 	Title/Company: Hatchery Manager U.S. Fish & Wildlife Service
Print Name: David Carie	Date: 1/18/19